

Arithmetic Practice Test: 5

For Grade-8, 9 and 10 students

Time: 45 minutes

1. In a light milk of 34 liters, the ratio of water and milk is 2:15. How much water needs to be added so that the ratio of the milk and the water would be equal to 6:1?
2. $\frac{3}{4}$ th of the total number of students of a school are equal to the $\frac{2}{3}$ rd of the total number of students of another school. Total number of students is 595. Find the number of students in each school.
3. Sam bought 15 cakes and 130 chocolates and his friend bought 9 cakes and 175 chocolates. Both paid the same price for each cake and chocolate. Find the ratio of the price of a cake and a chocolate.
4. The ratio of the length, breadth and height of a room is 5:4:3. The cost to paint per square meter of any wall is 60 cents. At this rate the total cost to paint all the walls will be \$129.60. Find the length, breadth and height of the room.
5. 3 men finish a work in 5 days. The same work can be completed by 4 women in 6 days and by 5 boys in 8 days respectively. Find the ratio of work done by 1 man, 1 woman and 1 boy.
6. A train starts its journey from a city A to city B and at the same time another train starts from the city B to city A. After the two trains meet somewhere in between, they reach their destination in 9 hrs and 16 hrs respectively. Find the ratio of the speed of the first and second train.
7. The total number of students in three sections of a school is 555. The ratio of the number of students of the first and the second section is 3:5 and the ratio of the number of students of the second and the third section is 7:11. Find the number of students in each section.
8. In an examination, the number of students who have passed is 3 times the number of failed students. Suppose if 11 more students would have been failed, then the ratio of the number of students passed and the number of students failed would have been 2:1. How many students appeared for the examination? How many students passed?

9. A person buys a laptop at a price of \$1100 and sells it at a price of \$1540. If he would have bought the laptop at a price of \$1200, then what will be the selling price if the ratio of cost price and selling price must be same for both the case?
10. A container has 90 liters of milk diluted with water. The ratio of milk and water is 2:1. How much milk needs to be added so that the ratio of milk and water would be 5:2.

ANSWERS

1. 1liter
2. 280, 315
3. 15:2
4. $length = 10m$, $breadth = 8m$, $height = 6m$
5. 8:5:3
6. 4:3
7. 105, 175, 275
8. 132, 99
9. \$1680
10. 15liters